

AP9641

A1 10. (New) SWT sensor for vehicles, comprising:  
a first housing for the accommodation of at least one converter element,  
a second housing for a signal processing unit,  
9 an at least 4-pole connection between the first and the second housing, and  
wherein said second housing includes a port for a control device, wherein the signal processing unit arranged in housing is an analog amplifier with a current output and provides an alternating current with an approximately sinusoidal shape.

11. (New) SWT sensor according to claim 10, wherein the second housing has a port designed as a 2-wire-connection, with a pin as signal output and a pin for the supply of operating voltage.

12. (New) SWT sensor according to claim 10, wherein the converter element is designed as a magneto-electric converter.

13. (New) SWT sensor according to claim 12, wherein the first housing comprises functional elements for positioning or carrying at least one magnet used for pre-loading the magneto-electric converter elements.

14. (New) SWT sensor according to claim 10, wherein said converter element is adapted to interface to a rotating member to pick up the speed of the rotating members.

15. (New) SWT sensor according to claim 10, wherein said converter element is adapted to interface to a tire to determine the flexation thereof.

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### REMARKS

Prior to a formal examination of the above-identified application, acceptance of the new claims and the enclosed substitute specification (under 37 CFR 1.125) is respectfully